

5 [means]a controller for closed loop controlling travel along said
ramping profile, so as to lock into individual temperatures along an arc of said
ramping profile;

[means for]said controller pointing to higher target temperatures along
said ramping profile at discrete time intervals;

10 [means for]said controller tracking each target temperature along said
ramping profile, by said closed loop control, until a next target temperature is set; and

[means for]said controller running said fuser at a steady state
temperature when [said fuser] said ramping profile nears said steady state temperature.

10. (Amended) A system for controlling ramp up temperature of a heater
in a fuser of a printer, as recited in claim 9, wherein said [control means
uses]controller controls running to each target temperature by one of proportional
control, integral control, derivative control, and a combination of proportional control,
5 integral control, derivative control.

11. (Amended) A system for controlling ramp up temperature of a heater
in a fuser of a printer, as recited in claim 10, wherein said [control means
uses]controller controls running to each target temperature by a combination of
proportional, integral and derivative control, and adjusts a duty cycle of said heater
5 conducting across an integer number of AC half cycles.

12. (Amended) A system for controlling ramp up temperature of a heater
in a fuser of a printer, as recited in claim 9, wherein said [heater is turned
on]controller controls turn on of said heater by using one of full on/full off control and
phase delay control.

13. (Amended) A system for controlling ramp up temperature of a heater
in a fuser of a printer, as recited in claim 9, wherein said controller minimizes thermal
stress to said heater [is minimized due to]by maintaining consistent temperature
ramping properties of said ramping profile.

14. (Amended) A system for controlling ramp up temperature of a heater
in a fuser of a printer, as recited in claim 13, wherein an amount of energy applied to

said fuser at the start of a print job is limited by said controller by turning on said heater when a temperature of said fuser falls below said ramping profile.

15. (Amended) A system for controlling ramp up temperature of a heater in a fuser of a printer while print media is fed toward said fuser, comprising:

[means for] a table storing a fuser temperature ramping profile;

[means for feeding print media toward said fuser;]

A2 5 [means for] a controller setting a ramp pointer to a beginning of said ramping profile;

[means for] said controller comparing an actual temperature of said fuser to a value on said ramping profile at set intervals;

[means for] said controller turning on said heater [is] if a temperature of 10 said fuser is less than said value on said ramping profile, and [ramping] incrementing a ramp pointer to ramp up from that point on said profile;

[means for] said controller maintaining said fuser turned off when said temperature of said fuser is greater than said value on said ramping profile; and

[means for] said controller ramping up said fuser to a steady state 15 temperature once said fuser is on.

17. (Amended) A method of controlling ramp up temperature of a heater in a fuser of a printer, comprising the steps of:

providing [multiple ramping profiles each] a single ramping profile 5 reaching [having] various steady state temperatures;

A3 selecting one of said [multiple ramping profiles] steady state 5 temperatures;

controlling, by closed loop control, travel along said [one of said multiple] ramping [profiles,] profile, so as to lock into individual temperatures along an arc of said ramping profile;

10 pointing to higher ones of said individual temperatures along said [one of said multiple] ramping [profiles] profile at discrete time intervals, said individual temperatures being less than said selected one of said steady state temperatures;

tracking each of said individual [temperature]temperatures along said
[one of said multiple] ramping [profiles]profile, by said closed loop control, until a
15 next individual temperature is set; and

A3
running said heater at [a]said selected one of said steady state
[temperature]temperatures when said next individual [temperatures]temperature is
near said selected one of said steady state [temperature]temperatures.

18. (Amended) A method of controlling ramp up temperature of a heater
in a fuser of a printer, as recited in claim 17, wherein said one of said [multiple
ramping profiles]steady state temperatures is selected based upon a type of media
being employed and a speed of printing.

REMARKS

An extraneous "is" is deleted from claims 7 and 16, line 10.

As required in the Official Action, the title is amended to reflect that the
application has method claims.

The amendment adds a sentence to page 7, based closely on original claim 18,
and therefore which does not add new matter. The amendment is made to conform
the specification to claim 18.

The amendment to page 8 is to conform the specification to the amendment of
Figure 2 made to respond to the Official Action indicating that the step was omitted.
Further, with respect to that, a drawing amendment is proposed by attached copy of
Figure 2 with changes shown in red. The change is to show an action 115 between
actions 110 and 120. That action reads: "INCREMENT RAMP POINTER TO
ACTUAL TEMP. < TEMP. POINTED TO." This amendment is supported directly
by steps 270, 280 and 290 of Figure 3, and as discussed on page 10, lines 18-25.

Also, in response to the Official Action, a copy of Figure 1 is enclosed
showing in red a proposed correction of "RAMO" to "RAMP".

Approval of the proposed drawing amendment to Figure 1 and Figure 3 is
respectfully requested.